

## Case 320 : Narrative

Case Vehicle (A): 1997 Lincoln	Vehicle (B): 1998 Volvo
Type: Town Car Signature Series, 4-door sedan	Type: CL8 Complete, 6x4 tractor/trailer
Driver: 56-year-old female	Driver: 36-year-old male
CDC: 01-FDAA-6	CDC: 99-0000-0

### SITUATION

[1](#) [2](#) On a snowy night, case vehicle (A) was traveling south at an unknown speed in a rural area, in the left southbound lane of a four-lane, divided, limited-access highway. The road was snow covered and it was dark and unlighted. The highway was divided by a grassy median and the posted speed limit was 70 mph (113 kph). Vehicle (B) is a tractor/trailer that was traveling north at an unknown speed in the left northbound lane of the same highway. The driver of case vehicle (A) lost control of the vehicle due to the slippery road conditions, and case vehicle (A) exited the east edge of the southbound lane. Case vehicle (A) then crossed the grassy median while rotating counterclockwise, and entered the left northbound lane. Case vehicle (A) struck vehicle (B) in the left side of the trailer with its front. After the impact, case vehicle (A) came to rest in the grassy median facing north. The driver and right-front passenger of case vehicle (A) were transported to a local hospital with police-reported "A" and "C" injuries, respectively. According to the police report, the driver of vehicle (B) did not sustain any injuries and the vehicle was driven from the scene. Case vehicle (A) was towed from the scene.

### GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

[3](#) [4](#) The direct damage to case vehicle (A) began at the left-front bumper corner and extended 164 cm across the entire front. [5](#) The maximum crush was 83 cm to the right portion of the front bumper. There was considerable damage to the top-front portions of the front end, including the cowl, the windshield, and the left A-pillar.

[5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) Using the WinSMASH crash-reconstruction program and crush measurements for case vehicle (A), the following impact severity was calculated for the frontal impact to case vehicle (A):

		Calculated Velocity Change - kph (mph)		
Vehicle	Variable	Total	Longitudinal	Latitudinal
Case Vehicle (A)	EBS	53 (33)	-46 (-29)	-27 (-17)

## DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

### Exterior

[12](#) In the front of case vehicle (A), the bumper and grille were severely damaged and pushed rearward into the engine compartment. [13](#) [14](#) The bumper fascia was separated from its attachments, and both headlight assemblies were shattered. [15](#) Both hood hinges were separated, causing the hood to separate from the vehicle and it was not available for inspection. [16](#) There was considerable damage to the windshield and the left A-pillar due to direct contact by vehicle (B). [17](#) This contact cracked the entire windshield and caused about 10% bond separation at the left side of the windshield. [12](#) There was also a small tear in the lower-left side of the windshield, and the right and left sides of the roof were buckled just above the doors and near the sunroof.

[18](#) On the right side, the fender was deformed and the front portion of the fender was displaced to the left. [19](#) There was no damage to the right wheel, although the right wheelbase was decreased 5 cm. [20](#) The lower portion of the A-pillar was deformed and the right-front door was deformed, but the door was operable. [21](#) There was no glazing damage to the right-side doors and there was no damage to the right-rear wheel. [22](#) There was no damage to the B-, C-, or D-pillars, and there was no deformation to the right-rear door or the right-rear quarter panel.

[23](#) On the left side, the fender was crumpled rearward into the left-front wheel well. [24](#) The left-front wheel rim was bent, the tire was deflated, and the left wheelbase was reduced 16 cm. [25](#) The upper and lower portions of the left A-pillar were deformed and pushed rearward, causing the driver door to be jammed closed. The driver door was buckled, the door window frame was bent, and the door glazing was broken. [26](#) There was no damage to the left B-, C-, or D-pillars, and the left-rear door was undamaged and operational. [27](#) [28](#) The trunk lid hinges were deformed and the trunk lid was misaligned. There was no other damage to the rear of case vehicle (A).

## Interior

[29](#) This vehicle was equipped with steering-wheel and passenger frontal-impact airbags, which deployed during this severe frontal impact. [30](#) [31](#) There was a small drop of blood on the center portion of the driver airbag, and there was blood and facial makeup on the lower-right portion of the passenger airbag. [32](#) [33](#) There was no damage to the steering wheel, and no rotation of the steering column. [34](#) [35](#) The upper and mid portions of the left instrument panel were displaced rearward, and the trim piece was loosened. [36](#) [37](#) The driver knee bolster was loosened from its attachment and there was a scuff mark on the steering column. [38](#) [39](#) The driver door panel was buckled out, the control panel cover on the door was slightly displaced, and the door glazing was broken. [40](#) There was no damage to the left side of the roof, the windshield header, or the sunvisor. [41](#) The left side of the windshield was cracked, the left A-pillar was crushed from direct contact with the trailer of vehicle (B), and the left side of the windshield and the left A-pillar were displaced to the rear. [42](#) [43](#) Also in the driver area, the floor was displaced up and the toepan was displaced rearward, causing the accelerator and brake pedals to be displaced. [44](#) The center area of the roof was not damaged, but the center portion of the windshield was cracked and displaced to the rear. [45](#) The rearview mirror came off of the windshield, and the mirror glass was broken. [46](#) The trim piece on the center-vertical console was displaced and the ashtray cover was damaged.

[47](#) In the right-front seating area, the windshield was cracked and displaced to the rear, but there was no damage to the roof or windshield header. [48](#) [49](#) There were scuff marks on

the glove compartment door, and the door was latched but slightly open. [50](#) The floor was displaced up and the toepan was displaced to the rear. [51](#) There was no damage to the right-front door, the door hardware, or the door armrest.

[52](#) [53](#) [54](#) [55](#) [56](#) The following intrusions were noted and measured:

Location	Component	Distance (cm)	Direction
left front	windshield	16	to rear
	toepan	12	to rear
	instrument panel	9	to rear
	A-pillar	9	to rear
	floor	9	up
right front	windshield	11	to rear
	toepan	8	to rear
	floor	4	up

## OCCUPANT KINEMATICS AND INJURIES

[57](#) [58](#) [59](#) [60](#) The 5-ft, 2-in, 110-lb, 56-year-old female driver was wearing the three-point belt, as indicated by D-ring marks on the shoulder-belt webbing, and the steering-wheel airbag deployed. [61](#) The shoulder-belt anchor point was adjusted to the highest position on the B-pillar. The driver reported that she was sitting in a normal driving posture and that she may have applied the brakes prior to the impact with the trailer.

During the frontal impact, the belt-restrained female driver moved forward and to the right relative to the vehicle interior, into the airbag and belt restraints. She sustained an abrasion to the left shoulder and a contusion to the center aspect of the chest from shoulder-belt loading. In addition, she sustained an abrasion to the right hip from lap-belt loading. She sustained an abrasion to the lateral aspect of the right thigh, possibly from

contact with the center armrest. [62](#) [63](#) She sustained a comminuted and displaced fracture to the mid shaft of the right femur, and a fracture to the supracondyle of the right femur, probably from knee contact with the knee bolster or the center instrument panel. [64](#) In addition, she sustained an abrasion to the medial aspect of the left shin, probably from contact with the plastic panel under the knee bolster.

[65](#) [66](#) [67](#) [68](#) [69](#) The 5-ft, 3-in, 125-lb, 54-year-old female right-front passenger was wearing the three-point belt, as indicated by slight D-ring marks on the shoulder-belt webbing, and the passenger airbag deployed. [70](#) The shoulder-belt anchor point was adjusted to the highest position on the B-pillar and the right-front passenger was reportedly sitting in a normal seated posture.

During the frontal impact, the belt-restrained female right-front passenger moved forward and to the right relative to the vehicle interior, into the belt restraints and airbag. [71](#) [72](#) She sustained a contusion to the right eyebrow, probably from contact by the deploying airbag, as evidenced by facial makeup on the right-lower aspect of the airbag skin. She sustained an abrasion and contusion to the left breast from loading by the shoulder belt. She also sustained fractures to the left lateral aspect of the 5th, 6th and 7th ribs with 10% pneumothorax, probably from chest loading by the shoulder belt. [73](#) [74](#) [75](#) She did not sustain any lower-extremity injuries, although there was evidence of knee contact with the glove compartment.

The following tables [76](#) [77](#) and attached drawings summarize the injuries for the two belt-and-airbag restrained front-seat occupants.

Occupant: Driver	Age: 56 years		Gender: Female	
Restraints: 3-point belt worn; airbag deployed	Stature: 157 cm (5 ft, 2 in)		Mass: 50 kg (110 lb)	
Injury Description	A.I.S.	Injury Source		
—	—	Definite	Probable	Possible
Abrasion, left shoulder	1	Shoulder belt	—	—
Contusion, center aspect of chest	1	Shoulder belt	—	—
Abrasion, right hip	1	Lap belt	—	—
Abrasion, lateral aspect of right thigh	1	—	—	Center armrest
Comminuted and displaced fracture, mid shaft of right femur	3	—	Knee bolster/center instrument panel	—
Fracture, right supracondyle of right femur	3	—	Knee bolster/center instrument panel	—
Abrasion, medial aspect of left shin	1	—	Plastic panel under knee bolster	—
Maximum A.I.S. Level	3	—	—	—
Injury Severity Score	10	—	—	—

Occupant: Right front	Age: 54 years	Gender: Female		
Restraints: 3-point belt worn; airbag deployed	Stature: 160 cm (5 ft, 3 in)	Mass: 57 kg (125 lb)		
Injury Description	A.I.S.	Injury Source		
—	—	Definite	Probable	Possible
Contusion, right eyebrow	1	—	Airbag	—
Abrasion, left breast	1	Shoulder belt	—	—
Contusion, left breast	1	Shoulder belt	—	—
Fractures, lateral aspect of left 5th, 6th and 7th ribs with 10% pneumothorax	3	—	Shoulder belt	—
Maximum A.I.S. Level	3	—	—	—
Injury Severity Score	10	—	—	—

CASE NO.: 889-89

CASE VEHICLE: FBI Lincoln

TYPE: Ford-Car, 4-door 1988

OCCUPANT: (Driver) 34-year-old female

STATURE: 507 cm (5' 6", 2 in)      HAIR: BRN (100%)

WEIGHT: 140 lb (63 kg)      EYES: BRN (100%)

SCAR(S):      HANDS - R      FEET - R



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DOI: 10.1002/for

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1. **Identify the main topic or purpose of the text.**  
 2. **Summarize the key points or findings.**  
 3. **Discuss the implications or significance of the results.**  
 4. **Conclude with a final statement or recommendation.**

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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Case No.: 220-02

Case No.: A-1 1997 Lincoln

Type: Town Car, 4-door sedan

Driver: 66-year-old female

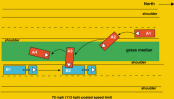
Vehicle ID: 1997 Volvo, Not Complete But tractor with trailer

Weather: Snow

Road Surface: Snow

Road Construction: Asphalt

Light Conditions: Overcast/lighted



# Vehicle Report

## General

## Conditions

Variable Number and Name	Code Value	Code Description	Other Options
V206 — Urban/Rural Area	2	Rural	<a href="#">more</a>
V207 — Limited Access Highway	1	Yes	<a href="#">more</a>
V208 — Road Total Lanes	5	Divided, 4 lanes or more	<a href="#">more</a>
V209 — Intersecting Road Total Lanes	8	Not applicable	<a href="#">more</a>
V210 — Road Surface Type	1	Asphalt	<a href="#">more</a>
V211 — Road Defects	0	No	<a href="#">more</a>
V212 — Construction Zone	0	No	<a href="#">more</a>
V213 — Road Alignment Vertical Plane	1	Level	<a href="#">more</a>
V214 — Road Alignment Horizontal Plane	1	Straight	<a href="#">more</a>
V215 — Surface Covering	39	Snow - condition unknown	<a href="#">more</a>
V216 — Visibility Limitation	0	None	<a href="#">more</a>
V217 — Visibility Obstruction	0	None	<a href="#">more</a>
V218 — Speed Limit	8	106+ km/h .. 65+ mph	<a href="#">more</a>
V219 — Precipitation Type	2	Snow	<a href="#">more</a>
V220 — Precipitation Rate	9	Unknown	<a href="#">more</a>
V221 — Temperature	9	Unknown	<a href="#">more</a>
V222 — Crosswind	9	Unknown	<a href="#">more</a>
V223 — Light Conditions	5	Dark, unlighted	<a href="#">more</a>
V224 — Mechanical Malfunction Mention	0	No	<a href="#">more</a>
V225 — Case Vehicle and Object	0	No	<a href="#">more</a>
V226 — Case Vehicle Rollover	0	No	<a href="#">more</a>

V227 — Case Vehicle Ran Off Roadway	1	Yes	<a href="#">more</a>
V228 — Moving Case Vehicle/Contacted Moving Vehicle	1	Yes	<a href="#">more</a>
V229 — Case Vehicle/Contacted Stopped Vehicle	0	No	<a href="#">more</a>
V230 — Stopped Case Vehicle/Contactd Vehicle	0	No	<a href="#">more</a>
V231 — Total Vehicles Hit By Case Vehicle	1	1 vehicle	<a href="#">more</a>
V232 — Any Fire in Crash	0	No	<a href="#">more</a>
V233 — Max Police Severity-PAR	3	A - Incapacitating Injury	<a href="#">more</a>
V234 — Driver Alcohol Involvement	0	Had not been drinking	<a href="#">more</a>
V235 — Driver Alcohol BAC	80	Not tested	<a href="#">more</a>
V236 — Driver Impairment Mention	1	Yes	<a href="#">more</a>
V237 — Driven/Towed From Scene	2	Towed Due to Damage	<a href="#">more</a>

## Other Vehicle

Variable Number and Name	Code Value	Code Description	Other Options
V301 — Other Vehicle VIN	4VG7DAHH2WN7	—	—
V302 — Other Vehicle Manufacturer/Body Code	95239	—	—
V303 — Other Vehicle Manufacturer	952	Volvo (Sweden)	<a href="#">more</a>
V304 — Other Vehicle Body Code	39	Truck or truck-tractor with full trailer	<a href="#">more</a>
V305 — Other Vehicle Make/Model	8130	Volvo White GMC 6x4 Tractor with trailer	<a href="#">more</a>
V306 — Other Vehicle Model Year	1998	—	—
V307 — Other Vehicle Mass	999999	Unknown	<a href="#">more</a>
V308 — Other Vehicle Number	0	No separate report	<a href="#">more</a>
V309 — Other Vehicle Number of Occupants	01	—	—
V310 — Other Vehicle Traveling Speed	999	Unknown	<a href="#">more</a>
V311 — Highest Police Injury Severity	0	0 - No Injury	<a href="#">more</a>
V312 — Other Vehicle Type	39	Truck (or semi) and full trailer(s)	<a href="#">more</a>
V313 — Other Vehicle Wheelbase (cm)	999	Unknown wheelbase	<a href="#">more</a>
V314 — Average Track Width	999	Unknown	<a href="#">more</a>
V315 — Overall Length	999	Unknown	<a href="#">more</a>
V316 — Overall Width (OAW)	999	Unknown	<a href="#">more</a>
V317 — Front Overhang (FOH)	999	Unknown	<a href="#">more</a>
V318 — Rear Overhang (ROH)	999	Unknown	<a href="#">more</a>
V319 — Undeformed End Width (UEW)	999	Unknown	<a href="#">more</a>
V320 — Engine Displacement	9.9 l	—	—
V321 — Engine: Number of Cylinders	99	Unknown	<a href="#">more</a>
V322 — Direct Damage Length (DDL)	999	Unknown	<a href="#">more</a>
V323 — Front-End Overlap % (FEO)	99	Missing or Not applicable	<a href="#">more</a>
V324 — Vehicle Overlap % (VOL)	99	Missing or Not applicable	<a href="#">more</a>

## Case Vehicle

### General

Variable Number and Name	Code Value	Code Description	Other Options
V401 — VIN	1LNLM82W5VY6	—	—
V402 — Manufacturer/Body Code	12202	—	—
V403 — Vehicle Manufacturer	122	Lincoln-Mercury	<a href="#">more</a>
V404 — Vehicle Body Code	02	—	—
V405 — Make/Model Code	1340	Town Car	<a href="#">more</a>
V406 — Model Year	1997	—	—
V407 — Vehicle Mass	001804 kg	—	—
V408 — Odometer Reading	888888	—	—
V409 — Number of Occupants	02	—	—
V410 — Traveling Speed	999	Unknown	<a href="#">more</a>
V411 — Body Type	14	4-door sedan	<a href="#">more</a>
V412 — Stolen Vehicle	8	Not currently collected	<a href="#">more</a>
V413 — Body Structure	2	Unitized	<a href="#">more</a>
V414 — Transmission Type	1	Automatic	<a href="#">more</a>
V415 — Transmission Lever Location	3	Column	<a href="#">more</a>
V416 — Steering	1	Power	<a href="#">more</a>
V417 — Brakes	1	Power	<a href="#">more</a>
V418 — Brake Type	2	Disc - front wheels	<a href="#">more</a>
V419 — Brake Anti-lock Device	2	Four-wheel	<a href="#">more</a>
V420 — Air Conditioning in Vehicle	8	Not currently collected	<a href="#">more</a>
V421 — Drive Type	1	Rear wheel	<a href="#">more</a>
V422 — Dual Rear Wheels	0	No	<a href="#">more</a>
V423 — Original Restraint System	3	Airbag	<a href="#">more</a>

Type			
V424 — Equipped With Roll Bar	0	No	<a href="#">more</a>
V425 — Roof Type	4	Sun roof closed	<a href="#">more</a>
V426 — Wheelbase	298 cm	—	—
V427 — Anti-lacerative Glass	0	None	<a href="#">more</a>
V428 — Average Track Width	160 cm	—	—
V429 — Overall Length	556 cm	—	—
V430 — Overall Width (OAW)	195 cm	—	—
V431 — Front Overhang	113 cm	—	—
V432 — Rear Overhang	145 cm	—	—
V433 — Undeformed End Width (UEW)	164 cm	—	—
V434 — Engine Displacement	4.6 <i>l</i>	—	—
V435 — Engine: Number of Cylinders	08	—	—
V436 — Direct Damage Length (DDL)	164 cm	—	—
V437 — Front End Overlap % (FEO)	98	98% or more	<a href="#">more</a>
V438 — Vehicle Overlap % (VOL)	98	98% or more	<a href="#">more</a>

## Case Vehicle

## Damage

## Description

Variable Number and Name	Code Value	Code Description	Other Options
V501 — Maximum Crush - Front	083 cm	—	—
V502 — Maximum Crush - Right Side	000 cm	No crush (or less than 1 cm.)	<a href="#">more</a>
V503 — Maximum Crush - Rear	000 cm	No crush (or less than 1 cm.)	<a href="#">more</a>
V504 — Maximum Crush - Left Side	000 cm	No crush (or less than 1 cm.)	<a href="#">more</a>
V505 — Maximum Crush - Roof	000 cm	No crush (or less than 1 cm.)	<a href="#">more</a>
V506 — Maximum Crush - Other	000 cm	No crush (or less than 1 cm.)	<a href="#">more</a>
V507 — Are Events In Chronological Order	1	Yes	<a href="#">more</a>
V508 — Event 1 Impact Location	1	On Roadway	<a href="#">more</a>
V509 — Event 1 Impact Configuration	13	FRONT of case veh - SIDE of contacted Vehicle	<a href="#">more</a>
V510 — Event 1 Object/Vehicle Contacted	39	Truck (or semi) and full trailer(s)	<a href="#">more</a>
V511 — Event 2 Impact Location	8	No 2nd event	<a href="#">more</a>
V512 — Event 2 Impact Configuration	88	No 2nd event	<a href="#">more</a>
V513 — Event 2 Object/Vehicle Contacted	00	No object/vehicle contacted	<a href="#">more</a>
V514 — Event 3 Impact Location	8	No 3rd event	<a href="#">more</a>
V515 — Event 3 Impact Configuration	88	No 3rd event	<a href="#">more</a>
V516 — Event 3 Object/Vehicle Contacted	00	No object/vehicle contacted	<a href="#">more</a>
V517 — Event 4 Impact Location	8	No 4th event	<a href="#">more</a>
V518 — Event 4 Impact Configuration	88	No 4th event	<a href="#">more</a>
V519 — Event 4 Object/Vehicle Contacted	00	No object/vehicle contacted	<a href="#">more</a>
V520 — Event 5 Impact Location	8	No 5th event	<a href="#">more</a>
V521 — Event 5 Impact Configuration	88	No 5th event	<a href="#">more</a>
V522 — Event 5 Object/Vehicle Contacted	00	No object/vehicle contacted	<a href="#">more</a>
V523 — Event 6 Impact Location	8	No 6th event	<a href="#">more</a>

V524 — Event 6 Impact Configuration	88	No 6th event	<a href="#">more</a>
V525 — Event 6 Object/Vehicle Contacted	00	No object/vehicle contacted	<a href="#">more</a>
V526 — Event 7 Impact On Road	8	No 7th event	<a href="#">more</a>
V527 — Event 7 Impact Configuration	88	No 7th event	<a href="#">more</a>
V528 — Event 7 Object/Vehicle Contacted	00	No object/vehicle contacted	<a href="#">more</a>
V529 — Primary CDC Case Vehicle -event Number	1	Event 1	<a href="#">more</a>
V530 — Primary CDC Case Vehicle - impact speed	999	Unknown	<a href="#">more</a>
V531 — Primary CDC Case Vehicle - Estimated By	1	Investigator	<a href="#">more</a>
V532 — Primary CDC Case Vehicle -crush	083	—	—
V533 — Primary CDC Case Vehicle -clock #1	01	1 o'clock	<a href="#">more</a>
V534 — Primary CDC Case Vehicle letter 1 #1	06	F - Front	<a href="#">more</a>
V535 — Primary CDC Case Vehicle letter 2 #1	04	D - Distributed (Side or End)	<a href="#">more</a>
V536 — Primary CDC Case Vehicle letter 3 #1	01	A - All	<a href="#">more</a>
V537 — Primary CDC Case Vehicle letter 4 #1	01	A - Overhanging Structures (inverted top)	<a href="#">more</a>
V538 — Primary CDC Case Vehicle Extent #1	06	Extent 6	<a href="#">more</a>
V539 — Primary CDC Case Vehicle -CDC #1	01FDAA6	—	—
V541 — Primary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V542 — Primary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V543 — Primary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V544 — Primary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V545 — Primary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	<a href="#">more</a>
V546 — Primary CDC Case Vehicle -CDC #2	9800000	—	—
V547 — Primary CDC Contacted Vehicle - Impact Speed	999	Unknown	<a href="#">more</a>
V548 — Primary CDC Contacted Vehicle - Estimated By	1	Investigator	<a href="#">more</a>
V549 — Primary CDC Contacted Vehicle -crush	999	Unknown	<a href="#">more</a>
V550 — Primary CDC Contacted Vehicle -clock #1	99	Unknown or no damage	<a href="#">more</a>
V551 — Primary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V552 — Primary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	<a href="#">more</a>



V553 — Primary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V554 — Primary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V555 — Primary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	<a href="#">more</a>
V556 — Primary CDC Contacted Vehicle -CDC #1	9900000	—	—
V558 — Primary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V559 — Primary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V560 — Primary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V561 — Primary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V562 — Primary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	<a href="#">more</a>
V563 — Primary CDC Contacted Vehicle -CDC #2	9900000	—	—
V564 — Secondary CDC Case Vehicle - Event No	8	Not applicable	<a href="#">more</a>
V565 — Secondary CDC Case Vehicle - Impact Speed	998	Not Applicable	<a href="#">more</a>
V566 — Secondary CDC Case Vehicle - Estimated By	8	Not applicable (no vehicle/no impact)	<a href="#">more</a>
V567 — Secondary CDC Case Vehicle -crush	998	Not Applicable	<a href="#">more</a>
V568 — Secondary CDC Case Vehicle -clock #1	98	Not Applicable	<a href="#">more</a>
V569 — Secondary CDC Case Vehicle letter 1 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V570 — Secondary CDC Case Vehicle letter 2 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V571 — Secondary CDC Case Vehicle letter 3 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V572 — Secondary CDC Case Vehicle letter 4 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V573 — Secondary CDC Case Vehicle Extent #1	00	Missing Data/Not applicable	<a href="#">more</a>
V574 — Secondary CDC Case Vehicle -CDC #1	9800000	—	—
V576 — Secondary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V577 — Secondary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V578 — Secondary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V579 — Secondary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V580 — Secondary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	<a href="#">more</a>
V581 — Secondary CDC Case Vehicle -CDC #2	9800000	—	—
V582 — Secondary CDC Contacted Vehicle - Impact Speed	998	Not Applicable	<a href="#">more</a>

V583 — Secondary CDC Contacted Vehicle - Estimated By	8	Not applicable (no vehicle/no impact)	<a href="#">more</a>
V584 — Secondary CDC Contacted Vehicle -crush	998	Not Applicable	<a href="#">more</a>
V585 — Secondary CDC Contacted Vehicle -clock #1	98	Not Applicable	<a href="#">more</a>
V586 — Secondary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V587 — Secondary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V588 — Secondary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V589 — Secondary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V590 — Secondary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	<a href="#">more</a>
V591 — Secondary CDC Contacted Vehicle -CDC #1	9800000	—	—
V593 — Secondary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V594 — Secondary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V595 — Secondary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V596 — Secondary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V597 — Secondary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	<a href="#">more</a>
V598 — Secondary CDC Contacted Vehicle -CDC #2	9800000	—	—

## Crash Severity

Variable Number and Name	Code Value	Code Description	Other Options
V601 — Case Vehicle Primary Impact Number	1	—	—
V602 — Primary Impact Total Delta-V	999	Unknown	<a href="#">more</a>
V603 — Primary Case Vehicle Reconstructed Longitudinal Delta-V	9999	—	—
V604 — Primary Case Vehicle Reconstructed Lateral Delta-V	9999	—	—
V605 — Primary Case Vehicle Reconstructed Crush Energy	9999	—	—
V606 — Primary Impact Case Vehicle -reconstruction	12	Other Vehicle Not Inspected	<a href="#">more</a>
V607 — Primary Case Vehicle Reconstruction Mode	5	Not reconstructed	<a href="#">more</a>
V608 — Primary Contacted Vehicle Reconstructed Total Delta-V	999	Unknown	<a href="#">more</a>
V609 — Primary Contacted Vehicle Reconstructed Longitudinal Delta-V	9999	—	—
V610 — Primary Contacted Vehicle Reconstructed Lateral Delta-V	9999	—	—
V611 — Primary Contacted Vehicle Reconstructed Crush Energy	9999	—	—
V612 — Case Vehicle Secondary Impact Number	8	—	—
V613 — Secondary Case Vehicle Reconstructed Total Delta-V	888	N/A	<a href="#">more</a>
V614 — Secondary Case Vehicle Reconstructed Longitudinal Delta-V	8888	—	—
V615 — Secondary Case Vehicle Reconstructed Lateral Delta-V	8888	—	—
V616 — Secondary Case Vehicle Reconstructed Crush Energy	8888	—	—
V617 — Secondary Case Vehicle Reconstruction Note	88	—	—
V618 — Secondary Case Vehicle Reconstruction Mode	8	Not applicable	<a href="#">more</a>
V619 — Secondary Contacted Vehicle Reconstructed Total Delta-V	888	N/A	<a href="#">more</a>

V620 — Secondary Contacted Vehicle Reconstructed Longitudinal Delta-V	8888	—	—
V621 — Secondary Contacted Vehicle Reconstructed Lateral Delta-V	8888	—	—
V622 — Secondary Contacted Vehicle Reconstructed Crush Energy	8888	—	—
V623 — Case Vehicle Primary Impact Number	1	—	—
V624 — Primary Case Vehicle Reconstructed Total EBS	053 kph	—	—
V625 — Primary Case Vehicle Reconstructed Longitudinal EBS	-046 kph	—	—
V626 — Primary Case Vehicle Reconstructed Lateral EBS	-027 kph	—	—
V627 — Primary Case Vehicle Reconstructed Crush Energy	0301 kJ	—	—
V628 — Primary Case Vehicle Reconstruction Note	22	Reconstructed, moderate confidence level	<a href="#">more</a>
V629 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	<a href="#">more</a>
V630 — Primary Contacted Vehicle Reconstruction Total EBS	888	N/A	<a href="#">more</a>
V631 — Primary Contacted Vehicle Reconstruction Longitudinal EBS	8888	—	—
V632 — Primary Contacted Vehicle Reconstruction Lateral EBS	8888	—	—
V633 — Primary Contacted Vehicle Reconstruction Crush Energy	8888	—	—
V634 — Case Vehicle Secondary Impact Number	8	Not applicable	<a href="#">more</a>
V635 — Secondary Case Vehicle Reconstruction Total EBS	888	N/A	<a href="#">more</a>
V636 — Secondary Case Vehicle Reconstruction Longitudinal EBS	8888	—	—
V637 — Secondary Case Vehicle Reconstruction Lateral EBS	8888	—	—
V638 — Secondary Case Vehicle Reconstruction Crush Energy	8888	—	—
V639 — Secondary Case Vehicle Reconstruction Note	88	—	—
V640 — Secondary Case Vehicle Reconstruction Mode	8	Not applicable	<a href="#">more</a>

V641 — Secondary Contacted Vehicle Reconstruction Total EBS	888	N/A	<a href="#">more</a>
V642 — Secondary Contacted Vehicle Reconstruction Longitudinal EBS	8888	—	—
V643 — Secondary Contacted Vehicle Reconstruction Lateral EBS	8888	—	—
V644 — Secondary Contacted Vehicle Reconstruction Crush Energy	8888	—	—
V645 — Case Vehicle Reconstructed Impact Number	1	—	—
V646 — Case Vehicle Impact 1 Plane	1	Bumper	<a href="#">more</a>
V647 — Case Vehicle Impact 1 Direct Damage Length [DDL]	164 cm	—	—
V648 — Case Vehicle Impact 1 Max Crush	083 cm	—	—
V649 — Case Vehicle Impact 1 Field-L	119 cm	—	—
V650 — Case Vehicle Impact 1 C1	037 cm	—	—
V651 — Case Vehicle Impact 1 C2	056 cm	—	—
V652 — Case Vehicle Impact 1 C3	063 cm	—	—
V653 — Case Vehicle Impact 1 C4	081 cm	—	—
V654 — Case Vehicle Impact 1 C5	083 cm	—	—
V655 — Case Vehicle Impact 1 C6	058 cm	—	—
V656 — Case Vehicle Impact 1 +/- D	0000 cm	—	—
V657 — Case Vehicle Reconstructed Impact Number	1	—	—
V658 — Case Vehicle Impact 2 Plane	9	Unknown	<a href="#">more</a>
V659 — Case Vehicle Impact 2 Direct Damage Length [DDL]	999	Unknown	<a href="#">more</a>
V660 — Case Vehicle Impact 2 Max Crush	999	Unknown	<a href="#">more</a>
V661 — Case Vehicle Impact 2 Field-L	999	Unknown	<a href="#">more</a>
V662 — Case Vehicle Impact 2 C1	999	Unknown	<a href="#">more</a>
V663 — Case Vehicle Impact 2 C2	999	Unknown	<a href="#">more</a>
V664 — Case Vehicle Impact 2 C3	999	Unknown	<a href="#">more</a>
V665 — Case Vehicle Impact 2 C4	999	Unknown	<a href="#">more</a>
V666 — Case Vehicle Impact 2 C5	999	Unknown	<a href="#">more</a>
V667 — Case Vehicle Impact 2 C6	999	Unknown	<a href="#">more</a>

V668 — Case Vehicle Impact 2 +/- D	0999 cm	—	—
V669 — Other Vehicle Reconstructed Impact Number	2	—	—
V670 — Other Vehicle Impact 1 Plane	8	Not applicable	<a href="#">more</a>
V671 — Other Vehicle Impact 1 Direct Damage Length [DDL]	998	Not applicable	<a href="#">more</a>
V672 — Other Vehicle Impact 1 Max Crush	998	Not applicable	<a href="#">more</a>
V673 — Other Vehicle Impact 1 Field-L	998	Not applicable	<a href="#">more</a>
V674 — Other Vehicle Impact 1 C1	998	Not applicable	<a href="#">more</a>
V675 — Other Vehicle Impact 1 C2	998	Not applicable	<a href="#">more</a>
V676 — Other Vehicle Impact 1 C3	998	Not applicable	<a href="#">more</a>
V677 — Other Vehicle Impact 1 C4	998	Not applicable	<a href="#">more</a>
V678 — Other Vehicle Impact 1 C5	998	Not applicable	<a href="#">more</a>
V679 — Other Vehicle Impact 1 C6	998	Not applicable	<a href="#">more</a>
V680 — Other Vehicle Impact 1 +/- D	9998	—	—
V681 — Other Vehicle Reconstructed Impact Number	2	—	—
V682 — Other Vehicle Impact 2 Plane	8	Not applicable	<a href="#">more</a>
V683 — Other Vehicle Impact 2 Direct Damage Length [DDL]	998	Not applicable	<a href="#">more</a>
V684 — Other Vehicle Impact 2 Max Crush	998	Not applicable	<a href="#">more</a>
V685 — Other Vehicle Impact 2 Field-L	998	Not applicable	<a href="#">more</a>
V686 — Other Vehicle Impact 2 C1	998	Not applicable	<a href="#">more</a>
V687 — Other Vehicle Impact 2 C2	998	Not applicable	<a href="#">more</a>
V688 — Other Vehicle Impact 2 C3	998	Not applicable	<a href="#">more</a>
V689 — Other Vehicle Impact 2 C4	998	Not applicable	<a href="#">more</a>
V690 — Other Vehicle Impact 2 C5	998	Not applicable	<a href="#">more</a>
V691 — Other Vehicle Impact 2 C6	998	Not applicable	<a href="#">more</a>
V692 — Other Vehicle Impact 2 +/- D	9998	—	—

## Case Vehicle

### Tires & Rims

Variable Number and Name	Code Value	Code Description	Other Options
V701 — Left Front Wheel Damaged	1	Yes	<a href="#">more</a>
V702 — Right Front Wheel Damaged	0	No	<a href="#">more</a>
V703 — Right Rear Wheel Damaged	0	No	<a href="#">more</a>
V704 — Left Rear Wheel Damaged	0	No	<a href="#">more</a>
V705 — Left Front Tire Tread Type	4	All Weather	<a href="#">more</a>
V706 — Right Front Tire Tread Type	4	All Weather	<a href="#">more</a>
V707 — Right Rear Tire Tread Type	4	All Weather	<a href="#">more</a>
V708 — Left Rear Tire Tread Type	4	All Weather	<a href="#">more</a>
V709 — Left Front Carcass Construction	3	Radial	<a href="#">more</a>
V710 — Right Front Carcass Construction	3	Radial	<a href="#">more</a>
V711 — Right Rear Carcass Construction	3	Radial	<a href="#">more</a>
V712 — Left Rear Carcass Construction	3	Radial	<a href="#">more</a>
V717 — Left Front Tire Size	P22560R16	—	—
V718 — Right Front Tire Size	P22560R16	—	—
V719 — Right Rear Tire Size	P22560R16	—	—
V720 — Left Rear Tire Size	P22560R16	—	—

## Case Vehicle

### Fuel, Tank, Fire

Variable Number and Name	Code Value	Code Description	Other Options
V801 — Propulsive Fuel Type	1	Gasoline	<a href="#">more</a>
V802 — Main Tank Location	322	Within frame/centered laterally - within vertically	<a href="#">more</a>
V803 — Main Filler Cap Location	113	Left of frame laterally - above vertically	<a href="#">more</a>
V804 — Main Tank Material	1	Steel	<a href="#">more</a>
V805 — Aux Tank Type	8	Not applicable (not equipped)	<a href="#">more</a>
V806 — Aux Tank Location	888	Not applicable (not equipped)	<a href="#">more</a>
V807 — Aux Filler Cap Location	888	Not applicable (not equipped)	<a href="#">more</a>
V808 — Aux Tank Material	8	Not applicable	<a href="#">more</a>
V901 — Fuel Leakage From Crash	0	No	<a href="#">more</a>
V1001 — Fire In Or On Case Vehicle	0	No	<a href="#">more</a>



## Case Vehicle

### Exterior

Variable Number and Name	Code Value	Code Description	Other Options
V1101 — Hood Latch Released	1	Yes	<a href="#">more</a>
V1102 — Hood Latch Damaged	9	Unknown	<a href="#">more</a>
V1103 — Hood Latch Jammed	9	Unknown	<a href="#">more</a>
V1104 — Left Hood Hinge Damaged	1	Yes	<a href="#">more</a>
V1105 — Left Hood Hinge Separated	1	Yes	<a href="#">more</a>
V1106 — Right Hood Hinge Damaged	1	Yes	<a href="#">more</a>
V1107 — Right Hood Hinge Separated	1	Yes	<a href="#">more</a>
V1108 — Hood Remained On Vehicle	0	No	<a href="#">more</a>
V1109 — Rear Hood Edge Elevated	1	Yes	<a href="#">more</a>
V1110 — Edge Contacted Windshield	9	Unknown	<a href="#">more</a>
V1111 — Edge Penetrated Windshield	8	Not applicable	<a href="#">more</a>
V1112 — Hood Latch Location	1	Front of Vehicle	<a href="#">more</a>
V1113 — Eng/Transmissn Mount Separation	0	No	<a href="#">more</a>
V1114 — Steerng Column Flex Coupling	9	Unknown if equipped	<a href="#">more</a>
V1115 — Steerng Column Coupling Damaged	9	Unknown	<a href="#">more</a>
V1116 — Steerng Column Coupling Separated	9	Unknown	<a href="#">more</a>
V1117 — Eng Comp Telescopng Unit	88	Not collected	<a href="#">more</a>
V1118 — Comp Orig/Telescopd Diff	888	Not collected	<a href="#">more</a>
V1119 — Left Side Body Mount Separation	8	Not applicable (unitized)	<a href="#">more</a>
V1120 — Upper Left A-pillar Separation	4	No separation, but damaged	<a href="#">more</a>
V1121 — Lower Left A-pillar Separation	4	No separation, but damaged	<a href="#">more</a>
V1122 — Upper Left B-pillar Separation	0	No	<a href="#">more</a>
V1123 — Lower Left B-pillar Separation	0	No	<a href="#">more</a>
V1124 — Upper Left C-pillar Separation	0	No	<a href="#">more</a>
V1125 — Lower Left C-pillar Separation	0	No	<a href="#">more</a>

V1126 — Upper Left D-pillar Separation	0	No	<a href="#">more</a>
V1127 — Lower Left D-pillar Separation	0	No	<a href="#">more</a>
V1128 — Left Front Door Opening Cause	0	Door did not open	<a href="#">more</a>
V1129 — Left Rear Door Opening Cause	0	Door did not open	<a href="#">more</a>
V1130 — Left Front Door Jammed Closed	1	Yes	<a href="#">more</a>
V1131 — Left Rear Door Jammed Closed	0	No	<a href="#">more</a>
V1132 — Rear Door Type	0	No door (includes pickups)	<a href="#">more</a>
V1133 — Rear Door Opening Cause	8	Not applicable (no rear door)	<a href="#">more</a>
V1134 — Rear Door Jammed Closed	8	Not applicable (no rear door)	<a href="#">more</a>
V1135 — Luggage Partition Damagd	0	No	<a href="#">more</a>
V1136 — Spare Tire Status	8	Not collected	<a href="#">more</a>
V1137 — Trailer Hitch Type	0	No hitch	<a href="#">more</a>
V1138 — Trailer Type	0	No trailer	<a href="#">more</a>
V1139 — Right Side Body Mount Separation	8	Not applicable (unitized)	<a href="#">more</a>
V1140 — Upper Right A-pillar Separation	4	No separation, but damaged	<a href="#">more</a>
V1141 — Lower Right A-pillar Separation	0	No	<a href="#">more</a>
V1142 — Upper Right B-pillar Separation	0	No	<a href="#">more</a>
V1143 — Lower Right B-pillar Separation	0	No	<a href="#">more</a>
V1144 — Upper Right C-pillar Separation	0	No	<a href="#">more</a>
V1145 — Lower Right C-pillar Separation	0	No	<a href="#">more</a>
V1146 — Upper Right D-pillar Separation	0	No	<a href="#">more</a>
V1147 — Lower Right D-pillar Separation	0	No	<a href="#">more</a>
V1148 — Right Front Door Opening Cause	00	Door did not open	<a href="#">more</a>
V1149 — Right Rear Door Opening Cause	00	Door did not open	<a href="#">more</a>
V1150 — Right Front Door Jammed Closed	0	No	<a href="#">more</a>
V1151 — Right Rear Door Jammed Closed	0	No	<a href="#">more</a>
V1152 — Van Rear Door Type	8	Not applicable (not a van)	<a href="#">more</a>
V1153 — Windshield Cracked		Yes	<a href="#">more</a>
V1154 — Windshield Broken	1	Yes	<a href="#">more</a>
V1155 — Windshield Cracked or Broken by	0	No	<a href="#">more</a>

Occupant			
V1156 — Bond Separation Extent	1	1 - 20%	<a href="#">more</a>
V1157 — Windshield Code		—	—
V1158 — Did Sun/T Roof Open	0	No	<a href="#">more</a>

## Case Vehicle

### Steering

#### Column/Rim

Variable Number and Name	Code Value	Code Description	Other Options
V1201 — Steering Wheel Rim Damage	0	None	<a href="#">more</a>
V1202 — Number of Steering Wheel Spokes	2	2 spokes	<a href="#">more</a>
V1203 — Steering Wheel Spoke Damage	0	None	<a href="#">more</a>
V1204 — Column Tilt Feature	1	Yes, equipped (position unknown)	<a href="#">more</a>
V1205 — Column Swing-away Feature	0	Not equipped	<a href="#">more</a>
V1206 — Column Telescoping Feature	0	Not equipped	<a href="#">more</a>
V1207 — Wheel Energy Absorb Device	8	Not collected	<a href="#">more</a>
V1208 — Wheel Ea Orig/Damaged Diff	888	Not collected	<a href="#">more</a>
V1209 — Column Energy Absorb Device	88	Not collected	<a href="#">more</a>
V1210 — Column Ea Orig/Comprss Diff	888	Not collected	<a href="#">more</a>
V1211 — Shear Capsule Separation	888	Not collected	<a href="#">more</a>
V1212 — Column Vertical Rotation	0	No apparent rotation	<a href="#">more</a>
V1213 — Column Lateral Rotation	0	No apparent rotation	<a href="#">more</a>
V1214 — Steering Wheel Hub Damage	0	None	<a href="#">more</a>

## Case Vehicle

### Intrusion

Variable Number and Name	Code Value	Code Description	Other Options
V1301 — Occupant Compartment Intrusion	1	Yes	<a href="#">more</a>
V1302 — Was Intrusion Catastrophic	0	No	<a href="#">more</a>
V1303 — Intrusion Number 01	01	Intrusion #1	<a href="#">more</a>
V1304 — Intrusion 01 Occupant Space Number	11	First row, Left seat	<a href="#">more</a>
V1305 — Intrusion 01 Intruding Object	06	Windshield	<a href="#">more</a>
V1306 — Intrusion 01 Assoc Event Number	1	Event #1	<a href="#">more</a>
V1307 — Intrusion 01 Max Intrusion X-axis	16 cm	—	—
V1308 — Intrusion 01 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1309 — Intrusion 01 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1310 — Intrusion 01 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1311 — Intrusion 01 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1312 — Intrusion 01 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1313 — Intrusion 01 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1314 — Intrusion Number 02	02	Intrusion #2	<a href="#">more</a>
V1315 — Intrusion 02 Occupant Space Number	11	First row, Left seat	<a href="#">more</a>
V1316 — Intrusion 02 Intruding Object	03	Toe pan	<a href="#">more</a>
V1317 — Intrusion 02 Assoc Event Number	1	Event #1	<a href="#">more</a>
V1318 — Intrusion 02 Max Intrusion X-axis	12 cm	—	—
V1319 — Intrusion 02 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1320 — Intrusion 02 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1321 — Intrusion 02 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1322 — Intrusion 02 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1323 — Intrusion 02 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1324 — Intrusion 02 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1325 — Intrusion Number 03	03	Intrusion #3	<a href="#">more</a>

V1326 — Intrusion 03 Occupant Space Number	11	First row, Left seat	<a href="#">more</a>
V1327 — Intrusion 03 Intruding Object	01	Instrument panel	<a href="#">more</a>
V1328 — Intrusion 03 Assoc Event Number	1	Event #1	<a href="#">more</a>
V1329 — Intrusion 03 Max Intrusion X-axis	09 cm	—	—
V1330 — Intrusion 03 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1331 — Intrusion 03 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1332 — Intrusion 03 Occupant Number	01	Occupant number 1, contact	<a href="#">more</a>
V1333 — Intrusion 03 Injury Number	05	Injury #5	<a href="#">more</a>
V1334 — Intrusion 03 Occupant Number	01	Occupant number 1, contact	<a href="#">more</a>
V1335 — Intrusion 03 Injury Number	06	Injury #6	<a href="#">more</a>
V1336 — Intrusion Number 04	04	Intrusion #4	<a href="#">more</a>
V1337 — Intrusion 04 Occupant Space Number	11	First row, Left seat	<a href="#">more</a>
V1338 — Intrusion 04 Intruding Object	04	Floor pan	<a href="#">more</a>
V1339 — Intrusion 04 Assoc Event Number	1	Event #1	<a href="#">more</a>
V1340 — Intrusion 04 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1341 — Intrusion 04 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1342 — Intrusion 04 Max Intrusion Z-axis	09 cm	—	—
V1343 — Intrusion 04 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1344 — Intrusion 04 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1345 — Intrusion 04 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1346 — Intrusion 04 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1347 — Intrusion Number 05	05	Intrusion #5	<a href="#">more</a>
V1348 — Intrusion 05 Occupant Space Number	11	First row, Left seat	<a href="#">more</a>
V1349 — Intrusion 05 Intruding Object	08	A-pillar	<a href="#">more</a>
V1350 — Intrusion 05 Assoc Event Number	1	Event #1	<a href="#">more</a>
V1351 — Intrusion 05 Max Intrusion X-axis	09 cm	—	—
V1352 — Intrusion 05 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1353 — Intrusion 05 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1354 — Intrusion 05 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>

V1355 — Intrusion 05 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1356 — Intrusion 05 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1357 — Intrusion 05 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1358 — Intrusion Number 06	06	Intrusion #6	<a href="#">more</a>
V1359 — Intrusion 06 Occupant Space Number	13	First row, Right seat	<a href="#">more</a>
V1360 — Intrusion 06 Intruding Object	06	Windshield	<a href="#">more</a>
V1361 — Intrusion 06 Assoc Event Number	1	Event #1	<a href="#">more</a>
V1362 — Intrusion 06 Max Intrusion X-axis	11 cm	—	—
V1363 — Intrusion 06 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1364 — Intrusion 06 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1365 — Intrusion 06 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1366 — Intrusion 06 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1367 — Intrusion 06 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1368 — Intrusion 06 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1369 — Intrusion Number 07	07	Intrusion #7	<a href="#">more</a>
V1370 — Intrusion 07 Occupant Space Number	13	First row, Right seat	<a href="#">more</a>
V1371 — Intrusion 07 Intruding Object	03	Toe pan	<a href="#">more</a>
V1372 — Intrusion 07 Assoc Event Number	1	Event #1	<a href="#">more</a>
V1373 — Intrusion 07 Max Intrusion X-axis	08 cm	—	—
V1374 — Intrusion 07 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1375 — Intrusion 07 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1376 — Intrusion 07 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1377 — Intrusion 07 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1378 — Intrusion 07 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1379 — Intrusion 07 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1380 — Intrusion Number 08	08	Intrusion #8	<a href="#">more</a>
V1381 — Intrusion 08 Occupant Space Number	11	First row, Left seat	<a href="#">more</a>
V1382 — Intrusion 08 Intruding Object	04	Floor pan	<a href="#">more</a>
V1383 — Intrusion 08 Assoc Event Number	1	Event #1	<a href="#">more</a>
V1384 — Intrusion 08 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>

V1385 — Intrusion 08 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1386 — Intrusion 08 Max Intrusion Z-axis	04 cm	—	—
V1387 — Intrusion 08 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1388 — Intrusion 08 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1389 — Intrusion 08 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1390 — Intrusion 08 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1391 — Intrusion Number 09	00	No Intrusion, None	<a href="#">more</a>
V1392 — Intrusion 09 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1393 — Intrusion 09 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1394 — Intrusion 09 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1395 — Intrusion 09 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1396 — Intrusion 09 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1397 — Intrusion 09 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1398 — Intrusion 09 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1399 — Intrusion 09 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1400 — Intrusion 09 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1401 — Intrusion 09 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1402 — Intrusion Number 10	00	No Intrusion, None	<a href="#">more</a>
V1403 — Intrusion 10 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1404 — Intrusion 10 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1405 — Intrusion 10 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1406 — Intrusion 10 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1407 — Intrusion 10 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1408 — Intrusion 10 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1409 — Intrusion 10 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1410 — Intrusion 10 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1411 — Intrusion 10 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1412 — Intrusion 10 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1413 — Door Intrusion Number 01	88	Not Applicable	<a href="#">more</a>



V1414 — Door Intrusion Number 01 Cause	8	Not applicable	<a href="#">more</a>
V1415 — Door Intrusion Number 02	88	Not Applicable	<a href="#">more</a>
V1416 — Door Intrusion Number 02 Cause	8	Not applicable	<a href="#">more</a>
V1417 — Door Intrusion Number 03	88	Not Applicable	<a href="#">more</a>
V1418 — Door Intrusion Number 03 Cause	8	Not applicable	<a href="#">more</a>
V1419 — Door Intrusion 01 Component	88	Not Applicable	<a href="#">more</a>
V1420 — Door Intrusion 01 Component Damaged 1	8	Not Applicable	<a href="#">more</a>
V1421 — Door Intrusion 01 Component Damaged 2	8	Not Applicable	<a href="#">more</a>
V1422 — Door Intrusion 02 Component	88	Not Applicable	<a href="#">more</a>
V1423 — Door Intrusion 02 Component Damaged 1	8	Not Applicable	<a href="#">more</a>
V1424 — Door Intrusion 02 Component Damaged 2	8	Not Applicable	<a href="#">more</a>
V1425 — Door Intrusion n 03 Component	88	Not Applicable	<a href="#">more</a>
V1426 — Door Intrusion 03 Component Damaged 1	8	Not Applicable	<a href="#">more</a>
V1427 — Door Intrusion 03 Component Damaged 2	8	Not Applicable	<a href="#">more</a>
V1428 — Door Intrusion 04 Component	88	Not Applicable	<a href="#">more</a>
V1429 — Door Intrusion 04 Component Damaged 1	8	Not Applicable	<a href="#">more</a>
V1430 — Door Intrusion 04 Component Damaged 2	8	Not Applicable	<a href="#">more</a>

## Case Vehicle

### Airbag(s)

Variable Number and Name	Code Value	Code Description	Other Options
V1501 — Driver Airbag Equipped	1	Yes	<a href="#">more</a>
V1502 — Driver Airbag Deployed	1	Yes	<a href="#">more</a>
V1503 — Driver Airbag Condition	0	No Damage	<a href="#">more</a>
V1504 — Passenger Airbag Equip	1	Yes	<a href="#">more</a>
V1505 — Passenger Airbag Deployed	1	Yes	<a href="#">more</a>
V1506 — Passenger Airbag Condition	0	No Damage	<a href="#">more</a>
V1507 — Steering Wheel Airbag Tether	1	Yes	<a href="#">more</a>
V1508 — Driver Airbag Marked By Contact	0	No	<a href="#">more</a>
V1509 — Passenger Airbag Tether	0	No	<a href="#">more</a>
V1510 — Passenger Airbag Marked By Contact	1	Yes	<a href="#">more</a>

## Case Vehicle

### Interior

Variable Number and Name	Code Value	Code Description	Other Options
V1601 — Left Front Door Damaged	1	Yes	<a href="#">more</a>
V1602 — Right Front Door Damaged	0	No	<a href="#">more</a>
V1603 — Left Front Hardware Damaged	0	No	<a href="#">more</a>
V1604 — Right Front Hardware Damaged	0	No	<a href="#">more</a>
V1605 — Left Front Armrest Damaged	0	No	<a href="#">more</a>
V1606 — Right Front Armrest Damaged	0	No	<a href="#">more</a>
V1607 — Left Front Glass Damaged	1	Yes	<a href="#">more</a>
V1608 — Right Front Glass Damaged	0	No	<a href="#">more</a>
V1609 — Left Rear Door Area Damaged	0	No	<a href="#">more</a>
V1610 — Right Rear Door Area Damaged	0	No	<a href="#">more</a>
V1611 — Left Rear Hardware Damaged	0	No	<a href="#">more</a>
V1612 — Right Rear Hardware Damaged	0	No	<a href="#">more</a>
V1613 — Left Rear Armrest Damaged	0	No	<a href="#">more</a>
V1614 — Right Rear Armrest Damaged	0	No	<a href="#">more</a>
V1615 — Left Rear Glass Damaged	0	No	<a href="#">more</a>
V1616 — Right Rear Glass Damaged	0	No	<a href="#">more</a>
V1617 — Left Roof Side Rail Damaged	0	No	<a href="#">more</a>
V1618 — Right Roof Side Rail Damaged	0	No	<a href="#">more</a>
V1619 — Left B-pillar Damaged	0	No	<a href="#">more</a>
V1620 — Right B-pillar Damaged	0	No	<a href="#">more</a>
V1621 — Left C-pillar Damaged	0	No	<a href="#">more</a>
V1622 — Right C-pillar Damaged	0	No	<a href="#">more</a>
V1623 — Left D-pillar Damaged	0	No	<a href="#">more</a>
V1624 — Right D-pillar Damaged	0	No	<a href="#">more</a>
V1625 — Left Headlining Damaged	0	No	<a href="#">more</a>

V1626 — Right Headlining Damaged	0	No	<a href="#">more</a>
V1627 — Left Roof Structure Damaged	0	No	<a href="#">more</a>
V1628 — Right Roof Structure Damaged	0	No	<a href="#">more</a>
V1629 — Left T/Sun Roof Damaged	0	No	<a href="#">more</a>
V1630 — Right T/Sun Roof Damaged	0	No	<a href="#">more</a>
V1631 — Other Left Side Item Damagd	8	Not applicable	<a href="#">more</a>
V1632 — Other Right Side Item Damagd	8	Not applicable	<a href="#">more</a>
V1633 — Foot Controls Damaged	4	Yes, occupant contact	<a href="#">more</a>
V1634 — Ignition Key Damaged	0	No	<a href="#">more</a>
V1635 — Rear View Mirror Damaged	1	Yes	<a href="#">more</a>
V1636 — Sunvisor/Fitting Damaged	0	No	<a href="#">more</a>
V1637 — Windshield Molding Damaged	0	No	<a href="#">more</a>
V1638 — Left A-pillar Damaged	1	Yes	<a href="#">more</a>
V1639 — Right A-pillar Damaged	0	No	<a href="#">more</a>
V1640 — Center Console Damaged	8	Not applicable	<a href="#">more</a>
V1641 — Transmission Lever Damaged	0	No	<a href="#">more</a>
V1642 — Horn/Spoke Shroud Damagd	0	No	<a href="#">more</a>
V1643 — Upper Panel Damaged	1	Yes	<a href="#">more</a>
V1644 — Mid Panel Damaged	1	Yes	<a href="#">more</a>
V1645 — Lower Panel Damaged	4	Yes, occupant contact	<a href="#">more</a>
V1646 — Ashtray Damaged	1	Yes	<a href="#">more</a>
V1647 — Control Knob/Lever Damaged	0	No	<a href="#">more</a>
V1648 — Glove Compartment Area Damaged	4	Yes, occupant contact	<a href="#">more</a>
V1649 — Instruments Damaged	0	No	<a href="#">more</a>
V1650 — Park Brake Release Damaged	0	No	<a href="#">more</a>
V1651 — Park Brake Pedal Damaged	0	No	<a href="#">more</a>
V1652 — A/C Or Upper Vent Damaged	0	No	<a href="#">more</a>
V1653 — Heater Or A/C Duct Damaged	0	No	<a href="#">more</a>
V1654 — Radio Damaged	0	No	<a href="#">more</a>

V1655 — Other Item Damaged	8	Not applicable	<a href="#">more</a>
V1656 — Rear Window Damaged	0	No	<a href="#">more</a>
V1657 — Rear Window Header Damaged	0	No	<a href="#">more</a>
V1658 — Vertical Console Damaged	0	No	<a href="#">more</a>
V1659 — Roof Console Damaged	0	No	<a href="#">more</a>

## Case Vehicle

### Seats

Variable Number and Name	Code Value	Code Description	Other Options
V1701 — Driver Front Seat Type	05	Bucket	<a href="#">more</a>
V1702 — Passenger Front Seat Type	05	Bucket	<a href="#">more</a>
V1703 — Driver Seat Mount Type	1	Standard	<a href="#">more</a>
V1704 — Passenger Seat Mount Type	1	Standard	<a href="#">more</a>
V1705 — Driver Swivel Mechanism Equipped	0	No	<a href="#">more</a>
V1706 — Passenger Swivel Mechanism Equipped	0	No	<a href="#">more</a>
V1707 — Driver Seat Original Equipment	1	Yes	<a href="#">more</a>
V1708 — Passenger Seat Original Equipment	1	Yes	<a href="#">more</a>
V1709 — Driver Seat/Rear Occupant Contact	8	Not applicable	<a href="#">more</a>
V1710 — Passenger Seat/Rear Occupant Contact	8	Not applicable	<a href="#">more</a>
V1711 — Driver Seat Damage	0	None	<a href="#">more</a>
V1712 — Passenger Seat Damage	0	None	<a href="#">more</a>
V1713 — Center Front Armrest Damaged	0	No	<a href="#">more</a>
V1714 — Driver Seat Rotation	0	None apparent	<a href="#">more</a>
V1715 — Passenger Seat Rotation	0	None apparent	<a href="#">more</a>
V1716 — Driver Seat-back Type	3	Reclining	<a href="#">more</a>
V1717 — Passenger Seat-back Type	3	Reclining	<a href="#">more</a>
V1718 — Driver Seat-back Lock Type	3	Power	<a href="#">more</a>
V1719 — Passenger Seat-back Lock Type	3	Power	<a href="#">more</a>
V1720 — Driver Seat-back Lock Held	1	Yes	<a href="#">more</a>
V1721 — Passenger Seat-back Lock Held	1	Yes	<a href="#">more</a>
V1722 — Driver Recliner Mechanism Held	1	Yes	<a href="#">more</a>
V1723 — Passenger Recliner Mechanism Held	1	Yes	<a href="#">more</a>
V1724 — Driver Head Restraint Type	1	Adjustable	<a href="#">more</a>
V1725 — Passenger Head Restraint Type	1	Adjustable	<a href="#">more</a>

V1726 — Driver Head Rest Removed	0	No	<a href="#">more</a>
V1727 — Passenger Head Rest Removed	0	No	<a href="#">more</a>
V1728 — Driver Head Rest Adjustment	1	Up	<a href="#">more</a>
V1729 — Passenger Head Rest Adjustment	1	Up	<a href="#">more</a>
V1730 — Driver Head Rest Damage	0	None	<a href="#">more</a>
V1731 — Passenger Head Rest Damage	0	None	<a href="#">more</a>
V1732 — Driver Seat Adjustment Type	2	Power	<a href="#">more</a>
V1733 — Passenger Seat Adjustment Type	2	Power	<a href="#">more</a>
V1734 — Driver Seat Adjustment Provided	3	6-way	<a href="#">more</a>
V1735 — Passenger Seat Adjustment Provided	3	6-way	<a href="#">more</a>
V1736 — Driver Seat Adjuster Damage	9	Unknown	<a href="#">more</a>
V1737 — Passenger Seat Adjuster Damage	9	Unknown	<a href="#">more</a>
V1738 — Driver Seat Adjuster Separation	0	None	<a href="#">more</a>
V1739 — Passenger Seat Adjuster Separation	0	None	<a href="#">more</a>
V1740 — Driver Seat Pre-crash Position	9	Unknown	<a href="#">more</a>
V1741 — Passenger Seat Pre-crash Position	9	Unknown	<a href="#">more</a>
V1742 — Left Rear Seat Type	1	Non-folding	<a href="#">more</a>
V1743 — Right Rear Seat Type	1	Non-folding	<a href="#">more</a>
V1744 — Left Rear Seat Damaged	0	None	<a href="#">more</a>
V1745 — Right Rear Seat Damaged	0	None	<a href="#">more</a>
V1746 — Center Rear Armrest Damaged	0	No	<a href="#">more</a>
V1747 — Left Rear Seat-back Left Lock Equipped	8	Not applicable	<a href="#">more</a>
V1748 — Right Rear Seat-back Left Lock Equipped	8	Not applicable	<a href="#">more</a>
V1749 — Left Rear Seat-back Left Lock Held	8	Not applicable	<a href="#">more</a>
V1750 — Right Rear Seat-back Left Lock Held	8	Not applicable	<a href="#">more</a>
V1751 — Left Rear Seat-back Right Lock Equipped	8	Not applicable	<a href="#">more</a>
V1752 — Right Rear Seat-back Right Lock Equipped	8	Not applicable	<a href="#">more</a>
V1753 — Left Rear Seat-back Right Lock Held	8	Not applicable	<a href="#">more</a>

V1754 — Right Rear Seat-back Right Lock Held	8	Not applicable	<a href="#">more</a>
V1755 — Left 3rd Seat Equipped	0	No	<a href="#">more</a>
V1756 — Right 3rd Seat Equipped	0	No	<a href="#">more</a>
V1757 — Left 3rd Seat Backrest Damaged	8	Not applicable	<a href="#">more</a>
V1758 — Right 3rd Seat Backrest Damaged	8	Not applicable	<a href="#">more</a>
V1759 — Left 3rd Seat Cushion Damaged	8	Not applicable	<a href="#">more</a>
V1760 — Right 3rd Seat Cushion Damaged	8	Not applicable	<a href="#">more</a>
V1761 — Rear Head Restraints	1	Equipped	<a href="#">more</a>



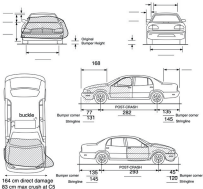
# MEASUREMENTS IN CENTIMETRE



no inspection  
driver from scene



# MEASUREMENTS IN CENTIMETERS



stringline was set at 413 cm  
should have been 411

WINDSHIELD MARK ON CASE VEHICLE:

unknown

direct damage from the trailer of vehicle (B)



plastic interlayer tear

10% bond separation

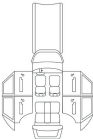
1 = Definitely 2 = Probably 3 = Possible

## INTRUSION IT-1

Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters)				Dominant Crush Direction
		Comparison Value	–	Intruded Value	= Intrusion	
11	windshield	80	–	64	= 16	to rear
11	toe pan	85	–	73	= 12	to rear
11	instrument panel	67	–	58	= 9	to rear
11	floor		–		= 9	up
11	A-pillar		–		= 9	to rear
13	windshield	80	–	69	= 11	to rear
13	toe pan	85	–	77	= 8	to rear
13	floor		–		= 4	up
			–		=	
			–		=	
			–		=	
			–		=	
			–		=	

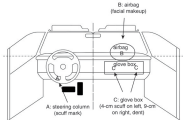
## OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	steering column	1	knee/leg	scuff	1
B	right frontal-impact airbag	2	face	facial makeup	1
C	glove box	2	legs	4-cm scuff on left, 9-cm scuff on right, dent	1
D					
E					



Dr belt: up on B-pillar  
evidence of use: marks on webbing,  
scratch on latch plate, mark on D-ring,  
blood on webbing when pulled out

Rt belt: up on B-pillar  
evidence of use: marks on D-ring,  
webbing marks, scratch on latch plate



Blower sitting

AIRBAG PLACEMENT ON DRIVER SIDE:



Blower sitting down



Single blow

Start:  15 31  
Type, how many

End:  15 31  
Type, how many

Passenger Entry



Notes: ① 1  
 If you have more: \_\_\_\_\_

Notes: ② 1  
 If you have more: \_\_\_\_\_

Passenger Entry/Exit

Single Row





# Case # 320: Occupant # 1; Injury # 1

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	01	Injury #1	<a href="#">more</a>
V2102 — 1st Prob Contact Area	34	Restraint system webbing	<a href="#">more</a>
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	<a href="#">more</a>
V2104 — Primary OIC -body Region	19	Shoulder	<a href="#">more</a>
V2105 — Primary OIC -aspect	12	Left	<a href="#">more</a>
V2106 — Primary OIC -lesion	01	Abrasion	<a href="#">more</a>
V2107 — Primary OIC -system/Organ	09	Integumentary	<a href="#">more</a>
V2108 — Primary OIC -severity	1	Minor	<a href="#">more</a>
V2109 — Primary OIC	SLAI1	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	<a href="#">more</a>
V2111 — Assoc OIC 1 -aspect	99	No injury	<a href="#">more</a>
V2112 — Assoc OIC 1 -lesion	99	No injury	<a href="#">more</a>
V2113 — Assoc OIC 1 -system/Organ	99	No injury	<a href="#">more</a>
V2114 — Assoc OIC 1 -severity	9	Unknown	<a href="#">more</a>
V2115 — Assoc OIC 1	—	—	—

## Case # 320: Occupant # 1; Injury # 2

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	02	Injury #2	<a href="#">more</a>
V2102 — 1st Prob Contact Area	34	Restraint system webbing	<a href="#">more</a>
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	<a href="#">more</a>
V2104 — Primary OIC -body Region	03	Chest	<a href="#">more</a>
V2105 — Primary OIC -aspect	12	Left	<a href="#">more</a>
V2106 — Primary OIC -lesion	01	Abrasion	<a href="#">more</a>
V2107 — Primary OIC -system/Organ	09	Integumentary	<a href="#">more</a>
V2108 — Primary OIC -severity	1	Minor	<a href="#">more</a>
V2109 — Primary OIC	CLAI1	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	<a href="#">more</a>
V2111 — Assoc OIC 1 -aspect	99	No injury	<a href="#">more</a>
V2112 — Assoc OIC 1 -lesion	99	No injury	<a href="#">more</a>
V2113 — Assoc OIC 1 -system/Organ	99	No injury	<a href="#">more</a>
V2114 — Assoc OIC 1 -severity	9	Unknown	<a href="#">more</a>
V2115 — Assoc OIC 1	—	—	—

# Case # 320: Occupant # 1; Injury # 3

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	03	Injury #3	<a href="#">more</a>
V2102 — 1st Prob Contact Area	34	Restraint system webbing	<a href="#">more</a>
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	<a href="#">more</a>
V2104 — Primary OIC -body Region	03	Chest	<a href="#">more</a>
V2105 — Primary OIC -aspect	12	Left	<a href="#">more</a>
V2106 — Primary OIC -lesion	03	Contusion	<a href="#">more</a>
V2107 — Primary OIC -system/Organ	09	Integumentary	<a href="#">more</a>
V2108 — Primary OIC -severity	1	Minor	<a href="#">more</a>
V2109 — Primary OIC	CLCI1	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	<a href="#">more</a>
V2111 — Assoc OIC 1 -aspect	99	No injury	<a href="#">more</a>
V2112 — Assoc OIC 1 -lesion	99	No injury	<a href="#">more</a>
V2113 — Assoc OIC 1 -system/Organ	99	No injury	<a href="#">more</a>
V2114 — Assoc OIC 1 -severity	9	Unknown	<a href="#">more</a>
V2115 — Assoc OIC 1	—	—	—

# Case # 320: Occupant # 1; Injury # 4

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	04	Injury #4	<a href="#">more</a>
V2102 — 1st Prob Contact Area	34	Restraint system webbing	<a href="#">more</a>
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	<a href="#">more</a>
V2104 — Primary OIC -body Region	03	Chest	<a href="#">more</a>
V2105 — Primary OIC -aspect	12	Left	<a href="#">more</a>
V2106 — Primary OIC -lesion	06	Fracture	<a href="#">more</a>
V2107 — Primary OIC -system/Organ	19	Skeletal	<a href="#">more</a>
V2108 — Primary OIC -severity	3	Serious	<a href="#">more</a>
V2109 — Primary OIC	CLFS3	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	<a href="#">more</a>
V2111 — Assoc OIC 1 -aspect	99	No injury	<a href="#">more</a>
V2112 — Assoc OIC 1 -lesion	99	No injury	<a href="#">more</a>
V2113 — Assoc OIC 1 -system/Organ	99	No injury	<a href="#">more</a>
V2114 — Assoc OIC 1 -severity	9	Unknown	<a href="#">more</a>
V2115 — Assoc OIC 1	—	—	—

# Case # 320: Occupant # 1; Injury # 5

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	05	Injury #5	<a href="#">more</a>
V2102 — 1st Prob Contact Area	55	Middle instrument panel	<a href="#">more</a>
V2103 — 2nd Prob Contact Area	86	Vertical console	<a href="#">more</a>
V2104 — Primary OIC -body Region	20	Thigh	<a href="#">more</a>
V2105 — Primary OIC -aspect	18	Right	<a href="#">more</a>
V2106 — Primary OIC -lesion	06	Fracture	<a href="#">more</a>
V2107 — Primary OIC -system/Organ	19	Skeletal	<a href="#">more</a>
V2108 — Primary OIC -severity	3	Serious	<a href="#">more</a>
V2109 — Primary OIC	TRFS3	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	<a href="#">more</a>
V2111 — Assoc OIC 1 -aspect	99	No injury	<a href="#">more</a>
V2112 — Assoc OIC 1 -lesion	99	No injury	<a href="#">more</a>
V2113 — Assoc OIC 1 -system/Organ	99	No injury	<a href="#">more</a>
V2114 — Assoc OIC 1 -severity	9	Unknown	<a href="#">more</a>
V2115 — Assoc OIC 1	—	—	—

# Case # 320: Occupant # 1; Injury # 6

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	06	Injury #6	<a href="#">more</a>
V2102 — 1st Prob Contact Area	55	Middle instrument panel	<a href="#">more</a>
V2103 — 2nd Prob Contact Area	87	Air cushion skin "airbag"	<a href="#">more</a>
V2104 — Primary OIC -body Region	20	Thigh	<a href="#">more</a>
V2105 — Primary OIC -aspect	18	Right	<a href="#">more</a>
V2106 — Primary OIC -lesion	06	Fracture	<a href="#">more</a>
V2107 — Primary OIC -system/Organ	19	Skeletal	<a href="#">more</a>
V2108 — Primary OIC -severity	3	Serious	<a href="#">more</a>
V2109 — Primary OIC	TRFS3	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	<a href="#">more</a>
V2111 — Assoc OIC 1 -aspect	99	No injury	<a href="#">more</a>
V2112 — Assoc OIC 1 -lesion	99	No injury	<a href="#">more</a>
V2113 — Assoc OIC 1 -system/Organ	99	No injury	<a href="#">more</a>
V2114 — Assoc OIC 1 -severity	9	Unknown	<a href="#">more</a>
V2115 — Assoc OIC 1	—	—	—

# Case # 320: Occupant # 1; Injury # 7

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	07	Injury #7	<a href="#">more</a>
V2102 — 1st Prob Contact Area	57	Beneath instrument panel	<a href="#">more</a>
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	<a href="#">more</a>
V2104 — Primary OIC -body Region	12	Leg (lower)	<a href="#">more</a>
V2105 — Primary OIC -aspect	12	Left	<a href="#">more</a>
V2106 — Primary OIC -lesion	01	Abrasion	<a href="#">more</a>
V2107 — Primary OIC -system/Organ	09	Integumentary	<a href="#">more</a>
V2108 — Primary OIC -severity	1	Minor	<a href="#">more</a>
V2109 — Primary OIC	LLAI1	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	<a href="#">more</a>
V2111 — Assoc OIC 1 -aspect	99	No injury	<a href="#">more</a>
V2112 — Assoc OIC 1 -lesion	99	No injury	<a href="#">more</a>
V2113 — Assoc OIC 1 -system/Organ	99	No injury	<a href="#">more</a>
V2114 — Assoc OIC 1 -severity	9	Unknown	<a href="#">more</a>
V2115 — Assoc OIC 1	—	—	—

# Case # 320: Occupant # 1

Variable Number and Name	Code Value	Code Description	Other Options
V2001 — Occupant Number	01	Occupant #1	<a href="#">more</a>
V2002 — Occupant Role At 1st Impact	1	Motor vehicle driver	<a href="#">more</a>
V2003 — Occupant Position -row	1	1st row	<a href="#">more</a>
V2004 — Occupant Position -lateral	1	Left	<a href="#">more</a>
V2005 — Occupant Position -posture	10	Sitting on seat	<a href="#">more</a>
V2006 — Occupant Age In Years	56	—	—
V2007 — Occupant Age In Months	25	25 months or older	<a href="#">more</a>
V2008 — Occupant Mass	050 kg	—	—
V2009 — Occupant Height	157 cm	—	—
V2010 — Occupant Sex	2	Female	<a href="#">more</a>
V2011 — Occupant Treatment/Mortality	04	Hospitalized over 24 hrs or for significant treatment	<a href="#">more</a>
V2012 — Injury Severity Score	10	ISS 10	<a href="#">more</a>
V2013 — Non-impact Med Condition	0	None	<a href="#">more</a>
V2014 — Police Injury Severity	3	A - Incapacitating Injury	<a href="#">more</a>
V2015 — Active Restraint System	3	Both lap belt and shoulder harness	<a href="#">more</a>
V2016 — Active Restraint Usage	3	Both lap belt and shoulder harness	<a href="#">more</a>
V2017 — Passive Restraint System	1	Air bag installed	<a href="#">more</a>
V2018 — Passive Restraint Usage	2	Air bag deployed	<a href="#">more</a>
V2019 — Child Seat Type	88	Not applicable (adult or older child)	<a href="#">more</a>
V2020 — Occupant Ejection Degree	0	None	<a href="#">more</a>
V2021 — Occupant Ejection Area	98	Not applicable (not ejected)	<a href="#">more</a>



V2022 — Highest OIC Severity	3	Serious	<a href="#">more</a>
V2023 — Head Restraint Available	1	Equipped	<a href="#">more</a>
V2024 — Occupant Eyewear	2	Contacts	<a href="#">more</a>
V2025 — Source of Occupant Info	7	Combination of above	<a href="#">more</a>

# Case # 320: Occupant # 2; Injury # 1

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	01	Injury #1	<a href="#">more</a>
V2102 — 1st Prob Contact Area	87	Air cushion skin "airbag"	<a href="#">more</a>
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	<a href="#">more</a>
V2104 — Primary OIC -body Region	06	Face	<a href="#">more</a>
V2105 — Primary OIC -aspect	19	Superior/upper	<a href="#">more</a>
V2106 — Primary OIC -lesion	03	Contusion	<a href="#">more</a>
V2107 — Primary OIC -system/Organ	09	Integumentary	<a href="#">more</a>
V2108 — Primary OIC -severity	1	Minor	<a href="#">more</a>
V2109 — Primary OIC	FSCI1	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	<a href="#">more</a>
V2111 — Assoc OIC 1 -aspect	99	No injury	<a href="#">more</a>
V2112 — Assoc OIC 1 -lesion	99	No injury	<a href="#">more</a>
V2113 — Assoc OIC 1 -system/Organ	99	No injury	<a href="#">more</a>
V2114 — Assoc OIC 1 -severity	9	Unknown	<a href="#">more</a>
V2115 — Assoc OIC 1	—	—	—

## Case # 320: Occupant # 2

Variable Number and Name	Code Value	Code Description	Other Options
V2001 — Occupant Number	02	Occupant #2	<a href="#">more</a>
V2002 — Occupant Role At 1st Impact	2	Motor vehicle passenger	<a href="#">more</a>
V2003 — Occupant Position -row	1	1st row	<a href="#">more</a>
V2004 — Occupant Position -lateral	5	Right	<a href="#">more</a>
V2005 — Occupant Position -posture	10	Sitting on seat	<a href="#">more</a>
V2006 — Occupant Age In Years	54	—	—
V2007 — Occupant Age In Months	25	25 months or older	<a href="#">more</a>
V2008 — Occupant Mass	057 kg	—	—
V2009 — Occupant Height	160 cm	—	—
V2010 — Occupant Sex	2	Female	<a href="#">more</a>
V2011 — Occupant Treatment/Mortality	04	Hospitalized over 24 hrs or for significant treatment	<a href="#">more</a>
V2012 — Injury Severity Score	10	ISS 10	<a href="#">more</a>
V2013 — Non-impact Med Condition	0	None	<a href="#">more</a>
V2014 — Police Injury Severity	1	C - Possible injury	<a href="#">more</a>
V2015 — Active Restraint System	3	Both lap belt and shoulder harness	<a href="#">more</a>
V2016 — Active Restraint Usage	3	Both lap belt and shoulder harness	<a href="#">more</a>
V2017 — Passive Restraint System	1	Air bag installed	<a href="#">more</a>
V2018 — Passive Restraint Usage	2	Air bag deployed	<a href="#">more</a>
V2019 — Child Seat Type	88	Not applicable (adult or older child)	<a href="#">more</a>
V2020 — Occupant Ejection Degree	0	None	<a href="#">more</a>
V2021 — Occupant Ejection Area	98	Not applicable (not ejected)	<a href="#">more</a>

V2022 — Highest OIC Severity	1	Minor	<a href="#">more</a>
V2023 — Head Restraint Available	1	Equipped	<a href="#">more</a>
V2024 — Occupant Eyewear	2	Contacts	<a href="#">more</a>
V2025 — Source of Occupant Info	7	Combination of above	<a href="#">more</a>





































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